

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	0.00	Rating **	A	Issue No.	23
LM End	0.00	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Operations & Maintenance Manuals			°	°
				°	°
DWR ID	DWR_NA0010_01_s _ 2013_23				
Comment Code					
Inspector Comment					
The LMA maintains a copy of the O&M manuals on file at district office.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	24
LM End	0.00	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Emergency Supplies & Equipment			°	°
				°	°
DWR ID	DWR_NA0010_01_s _ 2013_24				
Comment Code					
Inspector Comment					
The LMA has adequate supplies and equipment for flood response.					

No Photos

*** Location**
 LS : Land Side N/A : Not Applicable
 WS : Water Side
 CR : Crown

**** Rating**
 A : Acceptable N : Not Inspected/Rated
 M : Minimally Acceptable C : Corrected
 U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
 Ma : Maintenance Deficiency
 Ob : Design & System Obsolescence
 En : Enforcement

Lower San Joaquin Levee District

No Photos

Looking downstream at typical view of landward and waterward slopes.

Looking downstream at tree branch on waterward slope.

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**Flood Control Project Maintenance
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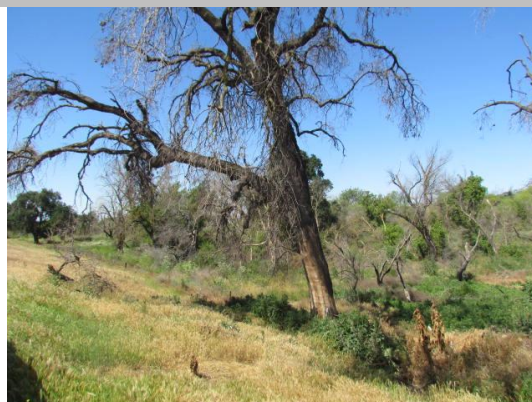
Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	0.14	Rating **	U	Issue No.	7
LM End	0.14	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.347152 °	37.347152 °
				-120.960560 °	-120.960560 °
DWR ID	DWR_NA0010_01_s_2012_7				
Comment Code					
V7 : Trees / Woody Vegetation					
Inspector Comment					
Dead tree on waterward slope and toe.					

Photo 1 of 1 : FA_2016_NA0010_118_7_20161007_00005.jpg



Looking southwest at dead tree on landward slope and toe.

LM Start	0.19	Rating **	M	Issue No.	3
LM End	0.19	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.346576 °	37.346576 °
				-120.961061 °	-120.961061 °
DWR ID	DWR_NA0010_01_s_2016_3				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Dead tree (limbs & branches) blocking landward right of way/ berm.					

Photo 1 of 1 : FA_2016_NA0010_118_3_20161007_00002.jpg



Looking east at brush and tree limbs blocking landward toe.

* Location
LS : Land Side N/A : Not Applicable
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CR : Crown

** Rating
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U : Unacceptable A/W : Acceptable but Monitor & Maintain

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	3.47	Rating **	U	Issue No.	1179
LM End	3.47	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.317057 °	37.317057 °
				-120.926443 °	-120.926443 °
DWR ID	DWR_NA0010_01_s_2015_1179				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Several erosions greater than three inches on landward slope.					

Photo 1 of 3 : FA_2016_NA0010_118_1179_20161007_00022.jpg



Looking south at erosion on landward slope and toe.

LM Start	3.47	Rating **	U	Issue No.	1179 (cont)
LM End	3.47	Issue Type +	Ma	Location *	LS

Photo 2 of 3 : FA_2016_NA0010_118_1179_20161007_00023.jpg



Looking southwest at erosion on landward slope and toe.

LM Start	3.47	Rating **	U	Issue No.	1179 (cont)
LM End	3.47	Issue Type +	Ma	Location *	LS

Photo 3 of 3 : FA_2016_NA0010_118_1179_20161007_00024.jpg



Looking west at erosion on landward slope and toe.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
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+ Issue Type

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Levee Inspections**

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Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	3.50	Rating **	M	Issue No.	17
LM End	3.96	Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Crown Surface / Depressions / Rutting		37.316652°	37.311006°	
			-120.926261°	-120.926402°	
DWR ID	DWR_NA0010_01_f_2012_17				
Comment Code					
C1 : Add appropriate material and re-grade the levee to bring the crown above the design elevation.					
Inspector Comment					

No Photos

LM Start	3.70	Rating **	M	Issue No.	2
LM End	3.72	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.313892°	37.313598°	
			-120.926507°	-120.926607°	
DWR ID	DWR_NA0010_01_s_2012_2				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	4.13	Rating **	C	Issue No.	100
LM End	4.13	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.309049°	37.309049°	
			-120.924421°	-120.924421°	
DWR ID	DWR_NA0010_01_f_2014_100				
Comment Code					
GA : Garbage					
Inspector Comment					
Old PVC pipes left on landward slope.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	4.18	Rating **	A/W	Issue No.	6
LM End	4.18	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.308540 °	37.308540 °
				-120.924003 °	-120.924003 °
DWR ID	DWR_NA0010_01_s_2012_6				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
Several rodent holes noted in this section.					

No Photos

LM Start	4.69	Rating **	U	Issue No.	9
LM End	4.69	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.302398 °	37.302398 °
				-120.920920 °	-120.920920 °
DWR ID	DWR_NA0010_01_s_2013_9				
Comment Code					
A2 : Repair the levee slope damaged by livestock and prevent large animal access.					
Inspector Comment					
Levee landward toe damaged by livestock.					

Photo 1 of 1 : FA_2016_NA0010_118_9_20161007_00006.jpg



Looking at landward slope damaged by livestock.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	5.87	Rating **	U	Issue No.	93
LM End	6.86	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.303584 °	37.302118 °
				-120.904614 °	-120.887957 °
DWR ID	DWR_NA0010_01_f_2015_93				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 2 : FA_2016_NA0010_118_93_20161024_00233.jpg



Looking at dense veg on waterward slope. (Fall 2016)

LM Start	5.87	Rating **	U	Issue No.	93 (cont)
LM End	6.86	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA_2016_NA0010_118_93_20161007_00018.jpg



Looking at dense veg on waterward slope. (Spring 2016)

LM Start	5.87	Rating **	U	Issue No.	92
LM End	6.86	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.303555 °	37.302118 °
				-120.904541 °	-120.887957 °
DWR ID	DWR_NA0010_01_f_2015_92				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 2 : FA_2016_NA0010_118_92_20161024_00234.jpg



Looking south at dense veg on landward slope. (Fall 2016)

*** Location**

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+ Issue Type

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Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	9.03	Rating **	U	Issue No.	94
LM End	9.72	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.297380°	37.293801°
				-120.850388°	-120.839759°
DWR ID	DWR_NA0010_01_f_2015_94				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 2 : FA_2016_NA0010_118_94_20161024_00236.jpg



Looking south at dense veg on waterward slope. (Fall 2016)

LM Start	9.03	Rating **	U	Issue No.	94 (cont)
LM End	9.72	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA_2016_NA0010_118_94_20161007_00019.jpg



Looking southwest at dense veg on waterward slope. (Spring 2016)

LM Start	9.16	Rating **	M	Issue No.	117
LM End	9.78	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.296145 °	37.293077 °
				-120.848588 °	-120.839170 °
DWR ID	DWR_NA0010_01_s_2012_117				
Comment Code					
C1 : Add appropriate material and re-grade the levee to bring the crown above the design elevation.					
Inspector Comment					
Control vegetation on levee crown.					

Photo 1 of 1 : FA_2016_NA0010_118_117_20161007_00021.jpg



Looking south at veg on levee crown.

*** Location**

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WS : Water Side
CR : Crown

**** Rating**

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+ Issue Type

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	9.57	Rating **	M	Issue No.	14
LM End	9.57	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.295517 °	37.295517 °
				-120.841452 °	-120.841452 °
DWR ID	DWR_NA0010_01_s_2015_14				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					
Depression greater than 3" deep by 18" wide by 18" long on levee crown					

Photo 1 of 3 : FA_2016_NA0010_118_14_20161007_00010.jpg



Looking at depression on levee crown. (Fall 2015)

LM Start	9.57	Rating **	M	Issue No.	14 (cont)
LM End	9.57	Issue Type +	Ma	Location *	CR

Photo 2 of 3 : FA_2016_NA0010_118_14_20161007_00011.jpg



Looking west at depression greater than three inches on levee crown.

LM Start	9.57	Rating **	M	Issue No.	14 (cont)
LM End	9.57	Issue Type +	Ma	Location *	CR

Photo 3 of 3 : FA_2016_NA0010_118_14_20161007_00012.jpg



Looking west at depression on levee crown.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
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U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

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Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	10/17/2016 10/20/2016	Richard Willoughby

LM Start	21.32	Rating **	U	Issue No.	8
LM End	22.46	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.180109°	37.167498°
				-120.762154°	-120.750862°
DWR ID	DWR_NA0010_01_f_2015_8				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Dense vegetation on waterward slope.					

Photo 1 of 1 : FA_2016_NA0010_118_8_20161024_00238.jpg




Looking downstream at dense veg on waterward slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	10/21/2016 10/21/2016	Richard Willoughby

Photo 1 of 1 : FA_2016_NA0010_119_24_20161007_000006.jpg



Looking northeast at veg on levee crown.

Photo 1 of 2 : FA_2016_NA0010_119_27_20161024_00065.jpg



Looking at dense veg on landward slope. (Fall 2016)

Photo 2 of 2 : FA_2016_NA0010_119_27_20161007_00007.jpg



Looking at dense veg on landward slope. (Spring 2016)

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	10/21/2016 10/21/2016	Richard Willoughby

LM Start	6.85	Rating **	M	Issue No.	22 (cont)	
LM End	6.85	Issue Type +	Ma	Location *	CR	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Animal Control			37.242833 °		37.242833 °
				-120.822270 °		-120.822270 °
DWR ID	DWR_NA0010_02A_f _ 2016_22					
Comment Code						
A1 : Exterminate rodents and backfill and compact or grout burrows.						
Inspector Comment						
Noticed several burrow holes on the levee crown. It does not seem to be rodent holes or gopher holes. It could be moles.						

Photo 2 of 2 : FA_2016_NA0010_119_22_20161024_00071.jpg



Looking at close-up of rodent hole on levee crown.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

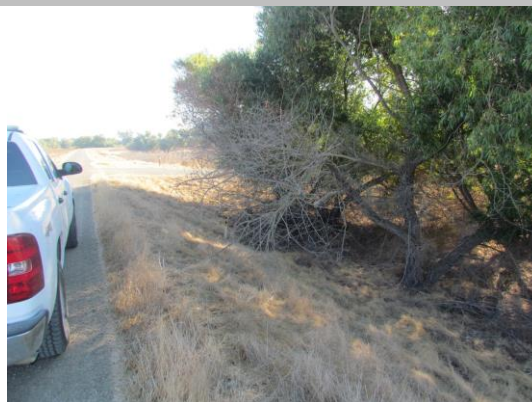
Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02B San Joaquin River	Left	5.92	10/21/2016 10/21/2016	Richard Willoughby

LM Start	7.96	Rating **	M	Issue No.	16
LM End	9.19	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.230198°	37.220483°
				-120.810702°	-120.792864°
DWR ID	DWR_NA0010_02B_f_2016_16				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					
Rutting cause by driving to fast.					

No Photos

LM Start	9.42	Rating **	M	Issue No.	17
LM End	9.42	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.220199°	37.220199°
				-120.788748°	-120.788748°
DWR ID	DWR_NA0010_02B_f_2016_17				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Trim back dead tree limb on landward toe.					

Photo 1 of 1 : FA_2016_NA0010_120_17_20161024_00005.jpg



Looking at dead tree limb on landward slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Lower San Joaquin Levee District

Looking north at untrimmed tree on waterward slope.

Looking northwest at broken tree limb on landward toe.

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Lower San Joaquin Levee District

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Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02B San Joaquin River	Left	5.92	10/21/2016 10/21/2016	Richard Willoughby

LM Start	13.42	Rating **	U	Issue No.	167
LM End	13.42	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.176379 °	37.176379 °
				-120.762255 °	-120.762255 °
DWR ID	DWR_NA0010_02B_s _ 2015_167				
Comment Code					
T3 : Trim and thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Dense trees on waterward slope.					

Photo 1 of 1 : FA_2016_NA0010_120_167_20161024_00009.jpg



Looking south at untrimmed trees on waterward slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 San Joaquin River	Right	2.10	10/20/2016 10/20/2016	Richard Willoughby

LM Start	0.19	Rating **	M	Issue No.	67
LM End	0.19	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.109013 °	37.109013 °
				-120.587799 °	-120.587799 °
DWR ID	DWR_NA0010_03_s _ 2015_67				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Rodent holes noted at landward toe.					

No Photos

LM Start	1.54	Rating **	M	Issue No.	65
LM End	1.54	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.094270 °	37.094270 °
				-120.573112 °	-120.573112 °
DWR ID	DWR_NA0010_03_s _ 2015_65				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

*** Location**
 LS : Land Side N/A : Not Applicable
 WS : Water Side
 CR : Crown

**** Rating**
 A : Acceptable N : Not Inspected/Rated
 M : Minimally Acceptable C : Corrected
 U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
 Ma : Maintenance Deficiency
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Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 San Joaquin River	Left	1.41	10/20/2016 10/20/2016	Richard Willoughby

LM Start		Rating **		Issue No.	
LM End		Issue Type +	--	Location *	
Category				GPS Latitude/Longitude	
				Start	End
Item				°	°
				°	°
DWR ID					
Comment Code					
Inspector Comment					
No issues were reported.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	10/18/2016 10/19/2016	Richard Willoughby

LM Start	1.66	Rating **	M	Issue No.	80
LM End	1.75	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.263448 °	37.262225 °
				-120.802715 °	-120.802296 °
DWR ID	DWR_NA0010_05_f_2015_80				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Several rodent holes on levee crown within this section.					

Photo 1 of 1 : FA_2016_NA0010_123_80_20161007_00011.jpg



Looking at typical view of rodent holes within this section on landward slope.

LM Start	2.82	Rating **	C	Issue No.	1308
LM End	2.82	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.256783°	37.256783°
				-120.785438°	-120.785438°
DWR ID	DWR_NA0010_05_s_2015_1308				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Dead tree limbs at landward toe.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	10/18/2016 10/19/2016	Richard Willoughby

LM Start	3.20	Rating **	M	Issue No.	6
LM End	3.35	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.256635 °	37.255170 °
				-120.778935 °	-120.776882 °
DWR ID	DWR_NA0010_05_s_2014_6				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
No rodent visible but several rodent holes visible on levee crown.					

Photo 1 of 1 : FA_2016_NA0010_123_6_20161007_00003.jpg



Looking at typical view of rodent holes on waterward slope.

LM Start	6.52	Rating **	M	Issue No.	15
LM End	6.52	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.230497 °	37.230497 °
				-120.727263 °	-120.727263 °
DWR ID	DWR_NA0010_05_s_2012_15				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	6.59	Rating **	M	Issue No.	1309
LM End	6.59	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.229682 °	37.229682 °
				-120.726305 °	-120.726305 °
DWR ID	DWR_NA0010_05_s_2015_1309				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					
Landward slope damage caused by animal foot traffic.					

Photo 1 of 2 : FA_2016_NA0010_123_1309_20161007_00015.jpg



Looking north at damaged landward slope.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	10/18/2016 10/19/2016	Richard Willoughby

LM Start	6.59	Rating **	M	Issue No.	1309 (cont)	
LM End	6.59	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Slope Stability			37.229682 °		37.229682 °
				-120.726305 °		-120.726305 °
DWR ID	DWR_NA0010_05_s _ 2015_1309					
Comment Code						
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.						
Inspector Comment						
Landward slope damage caused by animal foot traffic.						

Photo 2 of 2 : FA_2016_NA0010_123_1309_20161007_00016.jpg



Looking east at damaged landward slope.

LM Start	8.08	Rating **	M	Issue No.	4
LM End	8.08	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.213600 °	37.213600 °
				-120.706630 °	-120.706630 °
DWR ID	DWR_NA0010_05_s _ 2012_4				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	8.85	Rating **	M	Issue No.	5
LM End	8.85	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.205778 °	37.205778 °
				-120.696843 °	-120.696843 °
DWR ID	DWR_NA0010_05_s _ 2012_5				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	10/18/2016 10/19/2016	Richard Willoughby

LM Start	13.01	Rating **	M	Issue No.	2
LM End	13.01	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.175576 °	37.175576 °
				-120.638755 °	-120.638755 °
DWR ID	DWR_NA0010_05_s_2016_2				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Downed tree on landward toe.					

Photo 1 of 1 : FA_2016_NA0010_123_2_20161007_00002.jpg



Looking west at down tree at landward toe.

LM Start	13.59	Rating **	C	Issue No.	1311
LM End	13.59	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.169607 °	37.169607 °
				-120.631358 °	-120.631358 °
DWR ID	DWR_NA0010_05_s_2015_1311				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Downed tree on landward slope.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	10/18/2016 10/19/2016	Richard Willoughby

LM Start	25.59	Rating **	M	Issue No.	9
LM End	25.64	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.047630 °	37.047042 °
				-120.488530 °	-120.488092 °
DWR ID	DWR_NA0010_05_s_2012_9				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	29.68	Rating **	M	Issue No.	171
LM End	29.80	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.020272 °	37.018712 °
				-120.433737 °	-120.432682 °
DWR ID	DWR_NA0010_05_s_2014_171				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Waterside erosion caused by livestock.					

Photo 1 of 2 : FA_2016_NA0010_123_171_20161024_00208.jpg



Looking south at animal erosion on waterward slope.

LM Start	29.68	Rating **	M	Issue No.	171 (cont)
LM End	29.80	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA_2016_NA0010_123_171_20161024_00209.jpg



Looking north at animal erosion on waterward slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	10/18/2016 10/19/2016	Richard Willoughby

LM Start	29.89	Rating **	M	Issue No.	16
LM End	29.89	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.017540°	37.017540°	
			-120.431955°	-120.431955°	
DWR ID	DWR_NA0010_05_s_2012_16				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

*** Location**
 LS : Land Side N/A : Not Applicable
 WS : Water Side
 CR : Crown

**** Rating**
 A : Acceptable N : Not Inspected/Rated
 M : Minimally Acceptable C : Corrected
 U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
 Ma : Maintenance Deficiency
 Ob : Design & System Obsolescence
 En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	10/19/2016 10/20/2016	Richard Willoughby

LM Start	1.84	Rating **	M	Issue No.	125
LM End	1.84	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.259527°	37.259527°
				-120.803300°	-120.803300°
DWR ID	DWR_NA0010_06_s_2012_125				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	2.53	Rating **	M	Issue No.	76
LM End	2.53	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.252935°	37.252935°
				-120.794349°	-120.794349°
DWR ID	DWR_NA0010_06_f_2016_76				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

No Photos

*** Location**
 LS : Land Side N/A : Not Applicable
 WS : Water Side
 CR : Crown

**** Rating**
 A : Acceptable N : Not Inspected/Rated
 M : Minimally Acceptable C : Corrected
 U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
 Ma : Maintenance Deficiency
 Ob : Design & System Obsolescence
 En : Enforcement

Lower San Joaquin Levee District

No Photos

Looking at typical rodent holes on landward slope.

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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	10/19/2016 10/20/2016	Richard Willoughby

LM Start	5.98	Rating **	C	Issue No.	1
LM End	5.98	Issue Type +	Ma	Location *	WS
Category	Interior Drainage & Piping Systems		GPS Latitude/Longitude		
			Start	End	
Item	Erosion Areas		37.236386°	37.236386°	
			-120.739706°	-120.739706°	
DWR ID	DWR_NA0010_06_s_2016_1				
Comment Code					
Inspector Comment					
Erosion is undermining the headwall on both sides of the drainage structure.					

No Photos

LM Start	6.06	Rating **	M	Issue No.	22
LM End	6.06	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.235777°	37.235777°	
			-120.738598°	-120.738598°	
DWR ID	DWR_NA0010_06_s_2012_22				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	6.09	Rating **	M	Issue No.	21
LM End	6.09	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.235623°	37.235623°	
			-120.738017°	-120.738017°	
DWR ID	DWR_NA0010_06_s_2012_21				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	10/19/2016 10/20/2016	Richard Willoughby

LM Start	7.10	Rating **	M	Issue No.	7
LM End	7.10	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.226675 °	37.226675 °
				-120.724498 °	-120.724498 °
DWR ID	DWR_NA0010_06_s_2012_7				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	9.74	Rating **	M	Issue No.	6
LM End	11.00	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.200697 °	37.187645 °
				-120.692927 °	-120.676996 °
DWR ID	DWR_NA0010_06_s_2012_6				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					
Levee crown should be regraded due to excessive rutting.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	10/19/2016 10/20/2016	Richard Willoughby

LM Start	12.06	Rating **	M	Issue No.	74
LM End	12.60	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.180896°	37.173115°
				-120.664560°	-120.664612°
DWR ID	DWR_NA0010_06_f_2016_74				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

LM Start	14.94	Rating **	M	Issue No.	1212
LM End	14.94	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.162287 °	37.162287 °
				-120.628791 °	-120.628791 °
DWR ID	DWR_NA0010_06_s_2015_1212				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Several rodent holes noted on levee crown and landside and waterside slopes.					

Photo 1 of 1 : FA_2016_NA0010_124_1212_20161007_00040.jpg



Looking at rodent hole on levee crown.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	10/19/2016 10/20/2016	Richard Willoughby

LM Start	15.46	Rating **	M	Issue No.	124
LM End	15.70	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.158920°	37.157217°	
			-120.620232°	-120.618915°	
DWR ID	DWR_NA0010_06_s_2012_124				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	17.72	Rating **	M	Issue No.	67
LM End	18.69	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.133833°	37.120953°	
			-120.594568°	-120.587930°	
DWR ID	DWR_NA0010_06_f_2016_67				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

LM Start	17.72	Rating **	M	Issue No.	72
LM End	18.69	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.133833°	37.120953°	
			-120.594568°	-120.587930°	
DWR ID	DWR_NA0010_06_f_2016_72				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	10/19/2016 10/20/2016	Richard Willoughby

LM Start	19.14	Rating **	U	Issue No.	1211
LM End	19.14	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.114793 °	37.114793 °
				-120.587582 °	-120.587582 °
DWR ID	DWR_NA0010_06_s_2015_1211				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
Several large rodent holes with more than 2 cubic feet of material was noted on waterward slope					

LM Start	19.14	Rating **	U	Issue No.	1211 (cont)
LM End	19.14	Issue Type +	Ma	Location *	WS

Photo 1 of 5 : FA_2016_NA0010_124_1211_20161007_00035.jpg



Looking at rodent hole on waterward slope. Spring 2016

Photo 2 of 5 : FA_2016_NA0010_124_1211_20161007_00036.jpg



Looking at several rodent holes on waterward slope. (Fall 2015)

LM Start	19.14	Rating **	U	Issue No.	1211 (cont)
LM End	19.14	Issue Type +	Ma	Location *	WS

Photo 3 of 5 : FA_2016_NA0010_124_1211_20161007_00037.jpg

Looking at close-up view of large rodent hole on waterward slope.
(Spring 2015)

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	10/19/2016 10/20/2016	Richard Willoughby

LM Start	19.14	Rating **	U	Issue No.	1211 (cont)	
LM End	19.14	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Animal Control			37.114793 °		37.114793 °
				-120.587582 °		-120.587582 °
DWR ID	DWR_NA0010_06_s_2015_1211					
Comment Code						
A1 : Exterminate rodents and backfill and compact or grout burrows.						
Inspector Comment						
Several large rodent holes with more than 2 cubic feet of material was noted on waterward slope						

Photo 4 of 5 : FA_2016_NA0010_124_1211_20161007_00038.jpg



Looking at large rodent hole on waterward slope. Spring 2015

LM Start	19.14	Rating **	U	Issue No.	1211 (cont)
LM End	19.14	Issue Type +	Ma	Location *	WS

Photo 5 of 5 : FA_2016_NA0010_124_1211_20161007_00039.jpg



Looking west at several rodent holes on waterward slope. Spring 2015

LM Start	20.79	Rating **	U	Issue No.	1209
LM End	20.88	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.113107 °	37.112176 °
				-120.563782 °	-120.562516 °
DWR ID	DWR_NA0010_06_s_2015_1209				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Erosion on landward slope greater than 3 inches. Erosion caused by livestock.					

Photo 1 of 2 : FA_2016_NA0010_124_1209_20161007_00033.jpg



Looking north at livestock erosion on landward slope.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	10/19/2016 10/20/2016	Richard Willoughby

LM Start	22.99	Rating **	M	Issue No.	8
LM End	23.05	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.088663°	37.087968°
				-120.538193°	-120.537485°
DWR ID	DWR_NA0010_06_s_2012_8				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	24.58	Rating **	M	Issue No.	5
LM End	24.93	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.071198°	°
				-120.519220°	°
DWR ID	DWR_NA0010_06_s_2012_5				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					
Landside erosion caused by livestock.					

Photo 1 of 3 : FA_2016_NA0010_124_5_20161007_00013.jpg



Looking north at livestock erosion on landward slope. (Spring 2015)

LM Start	24.58	Rating **	M	Issue No.	5 (cont)
LM End	24.93	Issue Type +	Ma	Location *	LS

Photo 2 of 3 : FA_2016_NA0010_124_5_20161007_00014.jpg



Looking north at livestock erosion on landward slope. (Spring 2014)

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	10/19/2016 10/20/2016	Richard Willoughby

Photo 3 of 3 : FA_2016_NA0010_124_5_20161007_00015.jpg



Looking north at livestock erosion on landside slope. (Fall 2014)

Photo 1 of 1 : FA_2016_NA0010_124_1208_20161007_00032.jpg



Rodent holes on landward slope.

Photo 1 of 4 : FA_2016_NA0010_124_3_20161007_00009.jpg



Looking north at livestock erosion on landward slope. Fall 2015

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	10/19/2016 10/20/2016	Richard Willoughby

LM Start	27.64	Rating **	M	Issue No.	3 (cont)	
LM End	27.97	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Slope Stability			37.036955 °		37.032887 °
				-120.484395 °		-120.481225 °
DWR ID	DWR_NA0010_06_s_2012_3					
Comment Code						
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.						
Inspector Comment						
Landside erosion caused by livestock. Erosion greater than 3" in depth on landward slope. Levee crown has narrowed within this reach.						

Photo 2 of 4 : FA_2016_NA0010_124_3_20161007_00010.jpg



Looking north at livestock erosion on landward shoulder and slope.(Spring 2015)

LM Start	27.64	Rating **	M	Issue No.	3 (cont)
LM End	27.97	Issue Type +	Ma	Location *	LS

Photo 3 of 4 : FA_2016_NA0010_124_3_20161007_00011.jpg



Looking north at livestock erosion on landside shoulder and slope. (Fall 2014)

LM Start	27.64	Rating **	M	Issue No.	3 (cont)
LM End	27.97	Issue Type +	Ma	Location *	LS

Photo 4 of 4 : FA_2016_NA0010_124_3_20161007_00012.jpg



Looking north at livestock erosion on landward slope. (Spring 2013)

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	10/19/2016 10/20/2016	Richard Willoughby

LM Start	28.47	Rating **	M	Issue No.	19
LM End	28.71	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.029937 °	37.030102 °
				-120.473384 °	-120.469122 °
DWR ID	DWR_NA0010_06_s_2015_19				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	30.81	Rating **	U	Issue No.	1207
LM End	31.06	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.021615 °	37.018428 °
				-120.437587 °	-120.435378 °
DWR ID	DWR_NA0010_06_s_2015_1207				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Landward erosion greater than 1" in depth and greater than 3" in length. Erosion caused by livestock traffic.					

Photo 1 of 2 : FA_2016_NA0010_124_1207_20161007_00030.jpg



Looking northeast at livestock erosion on landward slope.

LM Start	30.81	Rating **	U	Issue No.	1207 (cont)
LM End	31.06	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA_2016_NA0010_124_1207_20161007_00031.jpg



Looking south at livestock erosion on landward slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	10/19/2016 10/20/2016	Richard Willoughby

LM Start	31.07	Rating **	M	Issue No.	64
LM End	35.31	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.018336°	36.974630°
				-120.435314°	-120.383942°
DWR ID	DWR_NA0010_06_f_2016_64				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

LM Start	31.07	Rating **	M	Issue No.	63
LM End	35.31	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.018336°	36.974629°
				-120.435314°	-120.383941°
DWR ID	DWR_NA0010_06_f_2016_63				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

*** Location**
 LS : Land Side N/A : Not Applicable
 WS : Water Side
 CR : Crown

**** Rating**
 A : Acceptable N : Not Inspected/Rated
 M : Minimally Acceptable C : Corrected
 U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
 Ma : Maintenance Deficiency
 Ob : Design & System Obsolescence
 En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	10/19/2016 10/20/2016	Richard Willoughby

LM Start	31.10	Rating **	U	Issue No.	2
LM End	31.10	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.017955 °	37.017955 °
				-120.435017 °	-120.435017 °
DWR ID	DWR_NA0010_06_s_2012_2				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 2 : FA_2016_NA0010_124_2_20161007_00007.jpg



Looking west at rodent holes on landside slope and toe near fence line.

LM Start	31.10	Rating **	U	Issue No.	2 (cont)
LM End	31.10	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA_2016_NA0010_124_2_20161007_00008.jpg



Looking at typical rodent hole on landside slope.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

Lower San Joaquin Levee District

Looking at typical view of rodent holes on landward slope.

Looking north at several rodent holes on landward slope.

Looking at east at active rodent holes on landside berm.

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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 07 Bear Creek Bypass	Right	3.62	10/18/2016 10/18/2016	Richard Willoughby

LM Start	1.25	Rating **	C	Issue No.	11
LM End	1.25	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.264367°	37.264367°
				-120.755218°	-120.755218°
DWR ID	DWR_NA0010_07_f_2014_11				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					

No Photos

LM Start	1.51	Rating **	M	Issue No.	6
LM End	1.51	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.263885 °	37.263885 °
				-120.750527 °	-120.750527 °
DWR ID	DWR_NA0010_07_s_2014_6				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

No Photos

*** Location**
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

Lower San Joaquin Levee District

No Photos

No Photos

Looking east at rodent hole next to fence post on landward shoulder.

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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 07 Bear Creek Bypass	Right	3.62	10/18/2016 10/18/2016	Richard Willoughby

LM Start	2.09	Rating **	M	Issue No.	12 (cont)	
LM End	2.09	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Animal Control			37.259187°		37.259187°
				-120.742551°		-120.742551°
DWR ID	DWR_NA0010_07_f_2014_12					
Comment Code						
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.						
Inspector Comment						
Rodent activity noted next to fence post.						

Photo 2 of 2 : FA_2016_NA0010_125_12_20161007_00004.jpg



Looking at rodent activity next to fence post

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 08 Bear Creek Bypass	Left	3.63	10/18/2016 10/18/2016	Richard Willoughby

LM Start	0.43	Rating **	M	Issue No.	15
LM End	0.43	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.257019°	37.257019°
				-120.764488°	-120.764488°
DWR ID	DWR_NA0010_08_s_2016_15				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	1.16	Rating **	M	Issue No.	5
LM End	1.16	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.263243 °	37.263243 °
				-120.756372 °	-120.756372 °
DWR ID	DWR_NA0010_08_s_2016_5				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					
Depression noted on levee crown.					

Photo 1 of 1 : FA_2016_NA0010_126_5_20161007_00002.jpg



Looking west at depression on toward landward shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Lower San Joaquin Levee District

Looking at typical view of rodent holes on landward slope.

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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 09 Owens Creek Bypass	Right	0.87	10/18/2016 10/18/2016	Richard Willoughby

LM Start	0.87	Rating **	U	Issue No.	5
LM End	0.87	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Repair Gates			37.220065°	37.220065°
				-120.698350°	-120.698350°
DWR ID	DWR_NA0010_09_s_2016_5				
Comment Code					
Inspector Comment					
Gate hinges broken. Safety hazard.					

Photo 1 of 1 : FA_2016_NA0010_127_5_20161007_00001.jpg



Looking at missing hinges on fence post.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 10 Owens Creek Bypass	Left	0.80	10/18/2016 10/18/2016	Richard Willoughby

LM Start		Rating **		Issue No.	
LM End		Issue Type +	--	Location *	
Category				GPS Latitude/Longitude	
				Start	End
Item				°	°
				°	°
DWR ID					
Comment Code					
Inspector Comment					
No issues were reported.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 11 Mariposa Bypass	Right	3.31	10/20/2016 10/20/2016	Richard Willoughby

LM Start	1.77	Rating **	M	Issue No.	1
LM End	1.77	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.202743°	37.202743°	
			-120.723187°	-120.723187°	
DWR ID	DWR_NA0010_11_s_2012_1				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

*** Location**
 LS : Land Side N/A : Not Applicable
 WS : Water Side
 CR : Crown

**** Rating**
 A : Acceptable N : Not Inspected/Rated
 M : Minimally Acceptable C : Corrected
 U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
 Ma : Maintenance Deficiency
 Ob : Design & System Obsolescence
 En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 12 Mariposa Bypass	Left	3.33	10/20/2016 10/20/2016	Richard Willoughby

LM Start	2.33	Rating **	M	Issue No.	1
LM End	2.33	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.200907°	37.200907°	
			-120.712978°	-120.712978°	
DWR ID	DWR_NA0010_12_s_2012_1				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

No Photos

*** Location**
 LS : Land Side N/A : Not Applicable
 WS : Water Side
 CR : Crown

**** Rating**
 A : Acceptable N : Not Inspected/Rated
 M : Minimally Acceptable C : Corrected
 U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
 Ma : Maintenance Deficiency
 Ob : Design & System Obsolescence
 En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 13 Ash Slough	Right	1.27	10/18/2016 10/18/2016	Richard Willoughby

LM Start	0.15	Rating **	M	Issue No.	3
LM End	0.15	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.035697°	37.035697°
				-120.441197°	-120.441197°
DWR ID	DWR_NA0010_13_s_2012_3				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

*** Location**
 LS : Land Side N/A : Not Applicable
 WS : Water Side
 CR : Crown

**** Rating**
 A : Acceptable N : Not Inspected/Rated
 M : Minimally Acceptable C : Corrected
 U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
 Ma : Maintenance Deficiency
 Ob : Design & System Obsolescence
 En : Enforcement

Lower San Joaquin Levee District

Looking at typical view of levee crown.

Looking at typical view of rodent holes on landward slope.

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Lower San Joaquin Levee District

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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 15 Berenda Slough	Right	2.03	10/18/2016 10/18/2016	Richard Willoughby

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Lower San Joaquin Levee District

Looking at several rodent holes and moles holes on levee crown.

No Photos

Looking at large rodent holes on landward slope.

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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 16 Berenda Slough	Left	1.96	10/18/2016 10/18/2016	Richard Willoughby

LM Start	1.77	Rating **	U	Issue No.	2 (cont)	
LM End	1.77	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Animal Control			36.995487°		36.995487°
				-120.377054°		-120.377054°
DWR ID	DWR_NA0010_16_f_2014_2					
Comment Code						
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.						
Inspector Comment						
Large rodent holes on landward slope.						

Photo 2 of 2 : FA_2016_NA0010_134_2_20161007_00002.jpg



Looking southwest at several rodent holes on landward slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Lower San Joaquin Levee District

Looking south at typical view of dense veg on landward slope.

Looking at typical view of dense veg on waterward slope.

Page 1 of 3

Lower San Joaquin Levee District

Lower San Joaquin Levee District

Looking downstream at typical view of dense veg on landward and waterward shoulders.

Looking at typical view of rodent holes within this section on landward slope.

Page 1 of 3

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 18 Chowchilla Canal Bypass	Left	15.35	10/19/2016 10/19/2016	Richard Willoughby

LM Start	6.52	Rating **	M	Issue No.	9
LM End	6.52	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		36.886767°	36.886767°	
			-120.323482°	-120.323482°	
DWR ID	DWR_NA0010_18_f_2014_9				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 22A East Side Canal	Left	5.51	10/18/2016 10/18/2016	Richard Willoughby

LM Start	0.53	Rating **	U	Issue No.	21
LM End	0.53	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.213006 °	37.213006 °
				-120.698019 °	-120.698019 °
DWR ID	DWR_NA0010_22A_f _ 2014_21				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Dense vegetation on landward slope.					

Photo 1 of 2 : FA_2016_NA0010_138_21_20161007_00008.jpg



Looking at dense vegetation on landward slope. Fall 2015

LM Start	0.53	Rating **	U	Issue No.	21 (cont)
LM End	0.53	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA_2016_NA0010_138_21_20161007_00009.jpg



Looking south at dense vegetation on landward slope. Spring 2015

LM Start	2.65	Rating **	U	Issue No.	13
LM End	2.65	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.242572 °	37.242572 °
				-120.706472 °	-120.706472 °
DWR ID	DWR_NA0010_22A_f _ 2016_13				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Erosion caused by animal traffic.					

Photo 1 of 1 : FA_2016_NA0010_138_13_20161024_00024.jpg



Looking at animal erosion on waterwater slope.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 22A East Side Canal	Left	5.51	10/18/2016 10/18/2016	Richard Willoughby

LM Start	2.86	Rating **	M	Issue No.	15
LM End	3.05	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.245431 °	37.247343 °
				-120.707990 °	-120.710362 °
DWR ID	DWR_NA0010_22A_s_2014_15				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Noted several rodent holes on landward slope and toe.					

Photo 1 of 1 : FA_2016_NA0010_138_15_20161007_00007.jpg



Looking at several rodent holes on landward slope.

LM Start	3.14	Rating **	C	Issue No.	2
LM End	3.14	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.248208°	37.248208°
				-120.711500°	-120.711500°
DWR ID	DWR_NA0010_22A_s_2012_2				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

No Photos

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 22A East Side Canal	Left	5.51	10/18/2016 10/18/2016	Richard Willoughby

LM Start	3.82	Rating **	M	Issue No.	10
LM End	5.09	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.255246°	37.267962°
				-120.720110°	-120.736909°
DWR ID	DWR_NA0010_22A_s_2012_10				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					

Photo 1 of 1 : FA_2016_NA0010_138_10_20161007_00005.jpg



Looking west at typical rutting on levee crown.

LM Start	4.82	Rating **	U	Issue No.	12
LM End	4.87	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.265418°	37.265823°
				-120.733142°	-120.733790°
DWR ID	DWR_NA0010_22A_s_2014_12				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Slope damage caused by animal traffic.					

Photo 1 of 1 : FA_2016_NA0010_138_12_20161007_00006.jpg



Looking northwest at slope damage cause by animal traffic on waterside slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 22A East Side Canal	Left	5.51	10/18/2016 10/18/2016	Richard Willoughby

LM Start	4.87	Rating **	U	Issue No.	8
LM End	4.87	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.265813 °	37.265813 °
				-120.733748 °	-120.733748 °
DWR ID	DWR_NA0010_22A_f _ 2016_8				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
Levee damage caused by animal traffic.					

Photo 1 of 2 : FA_2016_NA0010_138_8_20161024_00026.jpg



Looking downstream at animal erosion on waterward slope.

LM Start	4.87	Rating **	U	Issue No.	8 (cont)
LM End	4.87	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA_2016_NA0010_138_8_20161024_00027.jpg



Looking downstream at animal erosion on waterward slope.

LM Start	5.05	Rating **	M	Issue No.	4
LM End	5.05	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.267516 °	37.267516 °
				-120.736401 °	-120.736401 °
DWR ID	DWR_NA0010_22A_f _ 2013_4				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Erosion caused by animal traffic.					

Photo 1 of 2 : FA_2016_NA0010_138_4_20161007_00001.jpg



Looking southeast at livestock erosion on waterward toe.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.24	10/19/2016 10/19/2016	Richard Willoughby

LM Start	0.42	Rating **	U	Issue No.	20
LM End	1.51	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			36.772445°	36.772160°
				-120.277082°	-120.259722°
DWR ID	DWR_NA0010_23_f_2016_20				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : FA_2016_NA0010_139_20_20161024_00051.jpg



Looking at typical view of dense veg on landward slope.

LM Start	1.21	Rating **	M	Issue No.	6
LM End	1.21	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			36.772973 °	36.772973 °
				-120.264768 °	-120.264768 °
DWR ID	DWR_NA0010_23_s_2013_6				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Control growth of elderberry on landward toe.					

Photo 1 of 1 : FA_2016_NA0010_139_6_20161007_00007.jpg



Looking at elderberry on landward toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Lower San Joaquin Levee District

**Flood Control Project Maintenance
Levee Inspections**

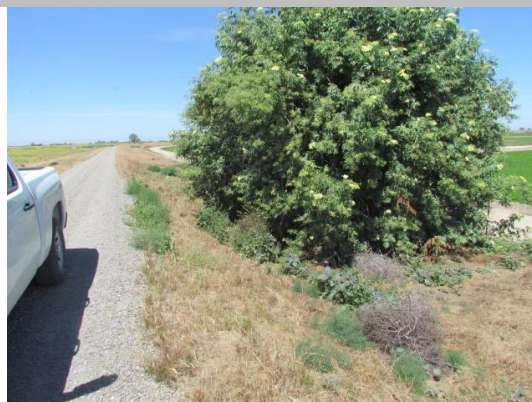
Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.24	10/19/2016 10/19/2016	Richard Willoughby

LM Start	2.85	Rating **	U	Issue No.	15
LM End	2.85	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			36.771537 °	36.771537 °
				-120.240917 °	-120.240917 °
DWR ID	DWR_NA0010_23_s_2012_15				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Control growth of elderberry bush on landward toe.					

Photo 1 of 3 : FA_2016_NA0010_139_15_20161007_00014.jpg



Looking west at elderberry at landward toe. (Spring 2016)

LM Start	2.85	Rating **	U	Issue No.	15 (cont)
LM End	2.85	Issue Type +	Ma	Location *	LS

Photo 2 of 3 : FA_2016_NA0010_139_15_20161007_00015.jpg



Looking east at elderberry at landward toe. (Spring 2015)

LM Start	2.85	Rating **	U	Issue No.	15 (cont)
LM End	2.85	Issue Type +	Ma	Location *	LS

Photo 3 of 3 : FA_2016_NA0010_139_15_20161007_00016.jpg



Looking east at elderberry on landside toe and berm. (Fall 2014)

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.24	10/19/2016 10/19/2016	Richard Willoughby

LM Start	3.30	Rating **	U	Issue No.	3
LM End	3.30	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			36.774403°	36.774403°
				-120.234705°	-120.234705°
DWR ID	DWR_NA0010_23_s_2012_3				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Control growth of elderberry on landward toe.					

Photo 1 of 4 : FA_2016_NA0010_139_3_20161007_00002.jpg



Looking North at elderberry on landward toe and berm. (Spring 2016)

LM Start	3.30	Rating **	U	Issue No.	3 (cont)
LM End	3.30	Issue Type +	Ma	Location *	LS

Photo 2 of 4 : FA_2016_NA0010_139_3_20161007_00003.jpg



Looking north at elderberry on landward toe and berm. (Spring 2015)

LM Start	3.30	Rating **	U	Issue No.	3 (cont)
LM End	3.30	Issue Type +	Ma	Location *	LS

Photo 3 of 4 : FA_2016_NA0010_139_3_20161007_00004.jpg



Looking north at elderberry on landside toe and berm. (Fall 2014)

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.24	10/19/2016 10/19/2016	Richard Willoughby

LM Start	4.13	Rating **	U	Issue No.	10 (cont)	
LM End	4.13	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Vegetation			36.784212 °		36.784212 °
				-120.228815 °		-120.228815 °
DWR ID	DWR_NA0010_23_s_2012_10					
Comment Code						
V4 : Elderberries are blocking visibility and flood fight capability.						
Inspector Comment						
Control growth of elderberry on landward toe.						

Photo 2 of 3 : FA_2016_NA0010_139_10_20161007_00010.jpg



Looking east at elderberry on landside toe and berm. (Spring 2015)

LM Start	4.13	Rating **	U	Issue No.	10 (cont)
LM End	4.13	Issue Type +	Ma	Location *	LS

Photo 3 of 3 : FA_2016_NA0010_139_10_20161007_00011.jpg



Looking east at elderberry bush on landward toe. (Fall 2013)

LM Start	4.45	Rating **	M	Issue No.	11
LM End	4.45	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			36.784523 °	36.784523 °
				-120.223292 °	-120.223292 °
DWR ID	DWR_NA0010_23_s_2012_11				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Control growth of elderberry on landward toe and berm.					

Photo 1 of 2 : FA_2016_NA0010_139_11_20161007_00012.jpg



Looking northeast at elderberry on landward toe and berm. (Spring 2015)

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.24	10/19/2016 10/19/2016	Richard Willoughby

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Lower San Joaquin Levee District

Looking at several rodent holes on landward slope.

Looking at typical view of dense veg on landward slope.

Page 1 of 3

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 24 San Joaquin River	Left	8.36	10/19/2016 10/19/2016	Richard Willoughby

LM Start	1.56	Rating **	U	Issue No.	12
LM End	2.17	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			36.770759 °	36.769993 °
				-120.269522 °	-120.259236 °
DWR ID	DWR_NA0010_24_f_2016_12				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : FA_2016_NA0010_140_12_20161024_00030.jpg



Looking at typical view of dense veg on waterward slope.

LM Start	3.46	Rating **	M	Issue No.	7
LM End	3.46	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			36.769345 °	36.769345 °
				-120.238370 °	-120.238370 °
DWR ID	DWR_NA0010_24_s_2012_7				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
One of several rodent holes on landward slope.					

Photo 1 of 1 : FA_2016_NA0010_140_7_20161007_00004.jpg



Looking east at one of several rodent holes on landward slope.

LM Start	6.33	Rating **	A/W	Issue No.	3
LM End	6.33	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			36.788155 °	36.788155 °
				-120.209655 °	-120.209655 °
DWR ID	DWR_NA0010_24_s_2012_3				
Comment Code					
PR : Prunings					
Inspector Comment					
Large pruning pile in channel.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 24 San Joaquin River	Left	8.36	10/19/2016 10/19/2016	Richard Willoughby

LM Start	6.72	Rating **	U	Issue No.	15
LM End	6.91	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			36.786678 °	36.783993 °
				-120.204741 °	-120.203779 °
DWR ID	DWR_NA0010_24_f_2015_15				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Dense vegetation on landward slope					

Photo 1 of 1 : FA_2016_NA0010_140_15_20161007_00005.jpg



Looking northwest at dense veg on landward slope and toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 25 Salt Slough	Right	2.49	10/21/2016 10/21/2016	Richard Willoughby

LM Start	0.00	Rating **	U	Issue No.	7
LM End	2.48	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.296261°	37.271165°
				-120.880678°	-120.866629°
DWR ID	DWR_NA0010_25_f_2015_7				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 2 : FA_2016_NA0010_141_7_20161024_00022.jpg



Looking at typical view of dense veg on landward slope. (Fall 2016)

LM Start	0.00	Rating **	U	Issue No.	7 (cont)
LM End	2.48	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA_2016_NA0010_141_7_20161007_00001.jpg



Looking at typical view of landward slope. (Spring 2016)

LM Start	0.00	Rating **	U	Issue No.	9
LM End	2.49	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.296261°	37.271117°
				-120.880678°	-120.866599°
DWR ID	DWR_NA0010_25_f_2015_9				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 2 : FA_2016_NA0010_141_9_20161024_00023.jpg



Looking at typical view of dense veg on waterward slope. (Fall 2016)

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

